

Diaseal M[®] Lost Circulation Material



A DIVISION OF CHEVRON PHILLIPS
CHEMICAL COMPANY LP

Diaseal M[®] LCM is a highly effective, high-solids, high-fluid-loss lost circulation squeeze material. A solid plug is formed in the thief formation when water or oil is squeezed from the slurry. Diaseal M[®] LCM creates a seal in the loss zone, not in the wellbore like conventional LCM. The seal cannot be easily disrupted by circulation or drill pipe movement.

Drilling Specialties' experienced personnel can help you design a Diaseal M[®] LCM squeeze to fit your particular application. Diaseal M[®] LCM has been used successfully since 1964 on thousands of wells combating lost circulation throughout the world. Diaseal M[®] LCM is highly effective in both water-based and oil-based mud applications. Diaseal M[®] LCM may also be mixed with cement to gain a small amount of compressive strength, adding to the longevity of the squeeze. Make Diaseal M[®] LCM your first line of defense in solving lost circulation problems.

Advantages

- Very dependable and easy solution to lost circulation problems.
- Does not require bypassing of most solids control equipment
- Does not contaminate drilling mud
- No risk of cementing up the drill pipe
- No risk of sidetracking hole as with cement squeezes
- Use instead of conventional LCM's
- May be blended with additional LCM's on location to form a custom squeeze unique to the lost circulation problem facing the operator
- May be used in both water base and oil based muds

Cost

Less than the cost for building new mud volume in most instances. Rig time spent on lost circulation problem is usually reduced. An extremely cost-effective material and procedure for remedying lost circulation.

Mud Types

All know water-based and oil-based muds

Mixing Requirements

Clean mixing tank at rig or liquid mud plant. Cement company pump truck may be needed for low-volume pump rates. When oil is used and weighted with barite, an oil-wetting agent is needed to promote oil wetting and dispersion of barite. Otherwise, extremely high viscosity may develop. Generally, 0.5 ppb oil-wetting agent is plenty.

Handling

For specific instructions refer to MSDS information or as illustrated on product containers

Packaging

40-pound multilayered paper sacks (40 bags to a pallet)

Application	Material Needed
Open hole lost circulation squeeze when open hole volume is 50 bbls or less	Mix specified amounts of water or oil, Diaseal M [®] LCM, barite and LCM for 100 bbl of Diaseal M [®] LCM liquid volume
Open hole lost circulation squeeze when open hole volume exceeds 50 bbls	Mix specified amounts of water or oil, Diaseal M [®] LCM, barite and LCM for 100 bbl of Diaseal M [®] LCM for an amount of slurry equal to twice the open hole volume (if practical)
Lost circulation squeeze through perforations	Mix specified amounts of water or oil, Diaseal M [®] LCM, barite and LCM for 100 bbl of Diaseal M [®] LCM for 50-100 bbl of slurry volume.
Additional Information	Follow recommended mixing, displacing and squeezing procedures for best results

*For additional information see the "Lost Circulation Guide" or "The Engineered Lost Circulation Materials" of Drilling Specialties

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Drilling Specialties Company does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.